

U.S.S.N. 08/765,108
Filed: March 27, 1997

CLEAN VERSION OF AMENDMENTS PURSUANT TO 37 C.F.R. § 1.121



**Clean Version of Amended Claims
Pursuant to 37 C.F.R. § 1.121(c)(1)(ii)**

11. (three times amended) An isolated nucleic acid molecule encoding a functional scavenger receptor protein type BI which selectively binds to low density lipoprotein and to modified lipoprotein having the characteristics of acetylated low density lipoprotein in cell medium containing 10% serum, which hybridizes to SEQ ID Nos. 3 and 7 under moderately stringent hybridization conditions at a temperature of approximately 25°C below the melting temperature of a perfectly base-paired double-stranded DNA.
12. (amended) The molecule of claim 11 expressed in cells selected from the group consisting of adipocytes, lung cells and liver cells.
13. (twice amended) The molecule of claim 11 hybridizing under stringent hybridization conditions at a temperature greater than 25°C below the melting temperature of a perfectly base-paired double-stranded DNA to a molecule with Sequence ID No. 3.
14. (twice amended) An isolated nucleic acid molecule encoding a scavenger receptor protein having the sequence of Sequence ID No. 3.
15. (twice amended) An isolated nucleic acid molecule encoding a protein with the amino acid sequence shown in Sequence ID No. 4.
19. (twice amended) The molecule of claim 11 which encodes a human scavenger receptor.

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20. (amended) The molecule of claim 11 labeled with a detectable label.
21. (three times amended) An expression vector comprising the molecule of claim 11 encoding the scavenger receptor protein.
22. (three times amended) A host cell comprising the nucleic acid molecule of claim 11.
44. (twice amended) A method for screening for a compound which alters the binding of scavenger receptor protein type BI, which is encoded by a nucleotide molecule hybridizing to SEQ ID Nos. 3 and 7 under moderately stringent hybridization conditions at a temperature of approximately 25°C below the melting temperature of a perfectly base-paired double-stranded DNA and which selectively binds to low density lipoprotein and to modified lipoprotein having the characteristics of acetylated low density lipoprotein in cell medium containing 10% serum, comprising

providing reagents for use in an assay for binding of low density lipoprotein or modified low density lipoprotein to the scavenger receptor protein the reagents comprising SR-BI, low density lipoprotein or modified low density lipoprotein, and means for determining if the low density lipoprotein or modified low density lipoprotein is bound to the scavenger receptor protein,

adding the compound to be tested to the assay, and

determining if the amount of modified low density lipoprotein or low density lipoprotein which is bound to the scavenger receptor protein is altered as compared to binding in the absence of the compound to be tested.

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45. (amended) The method of claim 44 wherein the assay includes a cell expressing the scavenger receptor protein and the compound is a nucleic acid molecule which alters expression of the scavenger receptor protein.

46. (amended) The method of claim 44 wherein the compound is selected from a library of compounds which are randomly tested for alteration of binding.

47. (amended) The method of claim 44 wherein the compound competitively inhibits binding of low density lipoprotein or modified lipoprotein having the characteristics of acetylated low density lipoprotein to the scavenger receptor protein.

48. (twice amended) A method for removing low density lipoprotein from patient blood comprising reacting the blood with immobilized scavenger receptor protein type B, wherein the scavenger receptor protein type BI is encoded by a nucleotide molecule hybridizing to SEQ ID Nos. 3 and 7 under moderately stringent hybridization conditions at a temperature of approximately 25°C below the melting temperature of a perfectly base-paired double-stranded DNA and selectively binds to low density lipoprotein and to modified lipoprotein having the characteristics of acetylated low density lipoprotein in cell medium containing 10% serum, under conditions wherein the low density lipoprotein is bound to the scavenger receptor.

49. (twice amended) A method for inhibiting uptake of lipoprotein or lipids by adipocytes comprising
administering a compound selectively inhibiting binding of lipoprotein to the scavenger receptor protein type BI, wherein the scavenger receptor protein type BI is encoded by a nucleotide molecule hybridizing to SEQ ID Nos. 3 and 7 and selectively binds to low density

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lipoprotein and to modified lipoprotein having the characteristics of acetylated low density lipoprotein, under conditions wherein the low density lipoprotein is bound to the scavenger receptor.

50. (amended) A method for screening patients for abnormal scavenger receptor protein activity or function comprising

determining the presence of scavenger receptor protein type BI, wherein the scavenger receptor protein type BI is encoded by a nucleotide molecule hybridizing to SEQ ID Nos. 3 and 7 under moderately stringent hybridization conditions at a temperature of approximately 25°C below the melting temperature of a perfectly base-paired double-stranded DNA and selectively binds to low density lipoprotein and to modified lipoprotein having the characteristics of acetylated low density lipoprotein, and

determining if the quantity present or the function of the receptor is equivalent to that present in normal cells.